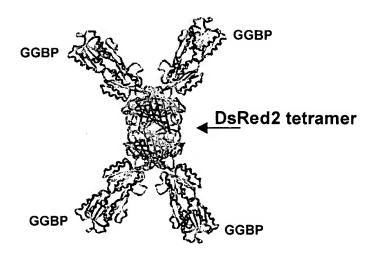
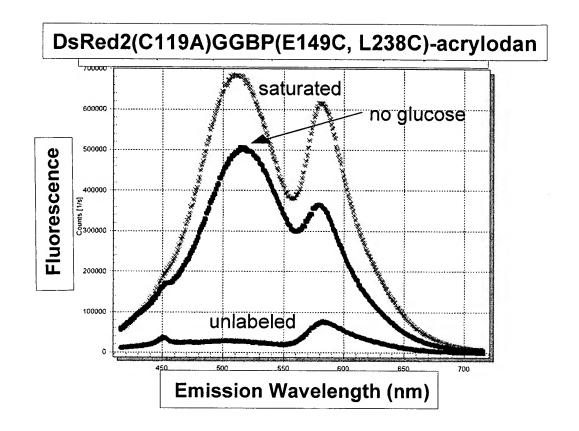


FIG. 1



DsRed2(C119A)GGBP tetrameric structure



## DsRed2(C119A)GGBP(L238C)-acrylodan

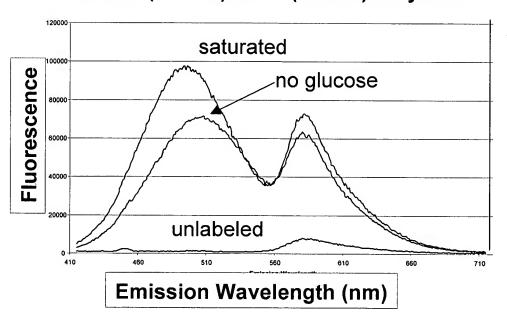
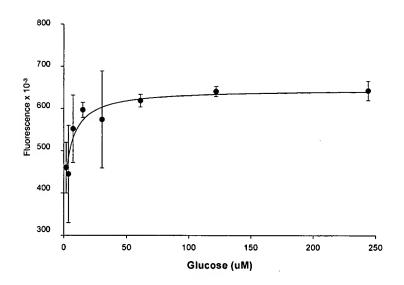


FIG. 3

## dsRed2(C119A)-GGBP(L238C)-acrylodan $\rm K_d$ =5.7 $\mu M$



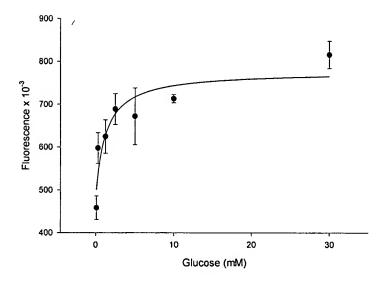


FIG. 4

## Ratiometric Detection

DsRed2(C119A)GGBP(L238C)-acrylodan

